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Jeffrey Pearce
34825 Sultan-Startup Rd.
Sultan, WA 98294

EXAMINER	
TRAN, QUOC A	
ART UNIT	PAPER NUMBER
2176	

DATE MAILED: 08/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/822,232	TREIBACH-HECK ET AL.	
	Examiner	Art Unit	
	Quoc A. Tran	2176	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *08 April 2004*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-18* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-18* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1. This action is responsive to Application filed 04/08/2004, which is CIP of 10/003,339 filed 10/03/2001.

2. Claims 1-18 are pending. Claims 1, 12 and 18 are independent claims.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

> ***The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.***

Claims 1-11 is rejected under 35 U.S.C. 112 second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 1, the phrase "and/or " renders the claim(s) indefinite because the claim(s) include(s) elements not actually disclosed (those encompassed by "and/or"), thereby rendering the scope of the claim(s) unascertainable. See MPEP § 2173.05(d).

Dependent claims 2-11 are rejected as being dependent upon a rejected base claims.

Clarification and/or correction are required.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> ***(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and***

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. **Claims 1, 2, 4-6, 5-6 and 9-18** are rejected under 35 U.S.C. 103(a) as being unpatentable over Arroyo et al. US 20030033167A1- Provisional No. 30/311,352 filed 08/13/2001 (hereinafter Arroyo), in view of Light et al. US 20030033167A1- issued 02/20/2001 (hereinafter Light).

In regard to independent claim 1, an originating system associated with an originator; a user, a client system; a center system (see Light at col. 2, lines 5-20) teaches the user's system, a client, item 110 is coupled to a network item 120. Servers item 130 are coupled to the network 120. Also the server item 130 may be the same computer as the client 110; these servers provide Web pages to the user via the network 120. These Web pages may include forms;

an identifier-generating software module (see Light at col. 2, line 50 through col. 3, line 20- also see Fig. 3) provides plurality of unit item such as, the auto-fill-in system 310 includes a fill-in subunit 315 and a learning subunit 370. The fill-in subunit 315 includes a form recognition unit 320. When a form is included in the web page the form recognition unit 320 notes that there is a form. Whereby the form includes a hypertext markup language (HTML) tag such as "form", or "input type," indicating that it is a form or that it requires user input. The auto-fill-in system 310 then inspects the source code for the page, and recognizes tags associated with blank spaces in the form, see example bellows,

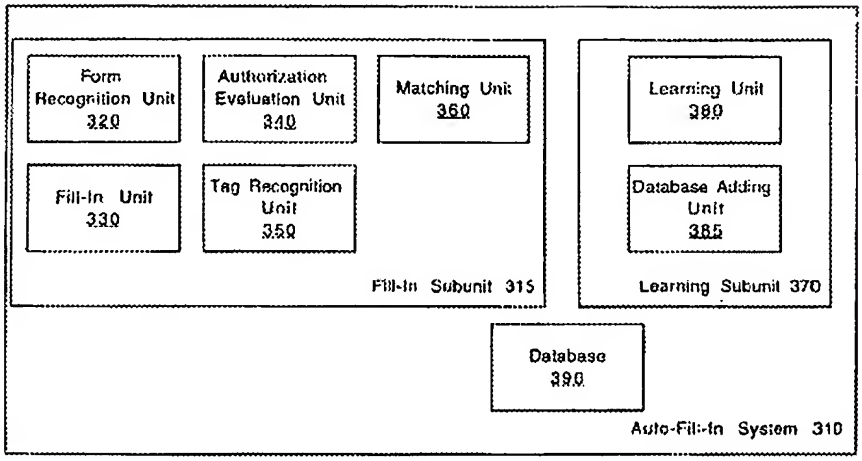


Fig. 3

We encourage you to enter your credit card number on-line, this is why it's secure. However, you also have the option of phoning us with the number.

Please enter your e-mail address: [ ]

My password is: [ ]

Have you forgotten your password?

My credit card type is: O MC O Visa O AmEx

My credit card number is: [ ]

It is noted that Light's Fig. 3 shows auto-fill-in system with plurality of sub unit (i.e. items 320, 340, 360, etc.), which would be active upon user selection as illustrates above, can reasonably interprets as, *"an identifier-generating software module"* of claimed invention.

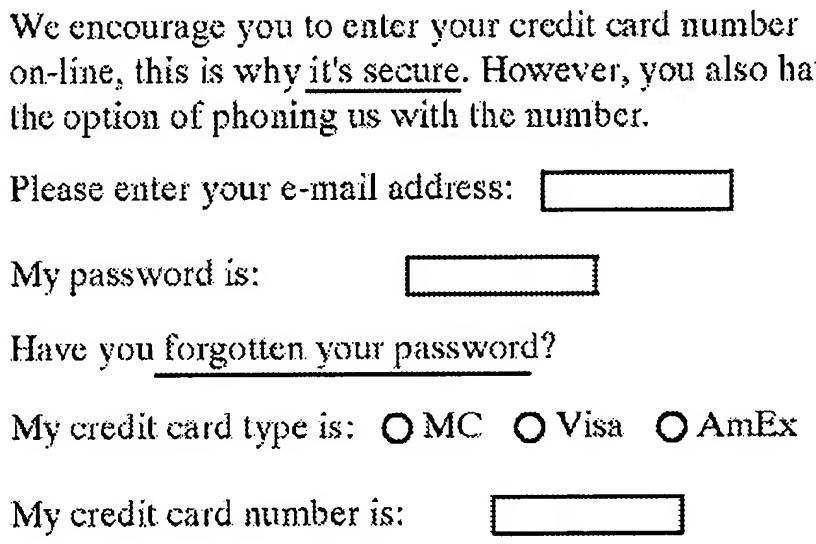
a form-handling software module in the client system comprising computer executable code for sensing a request for the a requestor-specific form by the originator, for entering first automatically extractable data onto an instance of the requestor-specific

form, and for generating a command to produce the requestor specific form for the originator; an intercepting software module comprising computer-executable code for sensing the command to produce the requestor-specific form, (see Light at col. 2, lines 5-20) teaches The user's system, a client, item 110 is coupled to a network item 120. Servers item 130 are coupled to the network 120. Also the server item 130 may be the same computer as the client 110; these servers provide Web pages to the user via the network 120. These Web pages may include forms; also (see Light at col. 2, line 50 through col. 3, line 20- also see Fig. 3) provides plurality of unit item such as, the auto-fill-in system 310 includes a fill-in subunit 315 and a learning subunit 370. The fill-in subunit 315 includes a form recognition unit 320. When a form is included in the web page the form recognition unit 320 notes that there is a form. Whereby the form includes a hypertext markup language (HTML) tag such as "form", or "input type," indicating that it is a form or that it requires user input. The auto-fill-in system 310 then inspects the source code for the page, and recognizes tags associated with blank spaces in the form.

the identifier-generating software module thereupon generating a requestor-specific identifier uniquely identifying the instance of the requester-specific form, (see Light at col. 2, lines 5-20) teaches The user's system, a client, item 110 is coupled to a network item 120. Servers item 130 are coupled to the network 120. Also the server item 130 may be the same computer as the client 110; these servers provide Web pages to the user via the network 120. These Web pages may include forms; also see Light at col. 2, line 50 through col. 3, line 20- also see Fig. 3) provides plurality of unit item such as, the auto-fill-in system 310 includes a fill-in subunit 315 and a learning subunit 370. The fill-in subunit 315 includes a form recognition unit 320. When a form is included in the web page the form recognition unit 320

notes that there is a form. Whereby the form includes a hypertext markup language (HTML) tag such as "form", or "input type," indicating that it is a form or that it requires user input. The auto-fill-in system 310 then inspects the source code for the page, and recognizes tags associated with blank spaces in the form;

and augmenting the instance of the requestor-specific form with the a requestor-specific identifier; (see Light at col. 3, lines 5-65) teaches,



Wherein, the tag recognition unit 350 then scans the form, and determines what the form is asking for (i.e. "email"). Alternately, the tag recognition unit 350 may recognize the label displayed to the user for the specified entry (i.e. "please enter your e-mail address" may be recognized by the tag recognition unit 350, and "e-mail address" extracted from it. Once the tag recognition unit 350 has extracted a tag, it passes the tag to the matching unit 360. The matching unit 360 searches in the database 390 for a similar tag.

a form-processing software module within the center system and comprising computer-executable code (see Light at col. 7, lines 10-20) teaches at 595, the new tag and new

data associated with it are added to the database. For another embodiment, the tag and data are automatically added to the database. Also (see Light at col. 2, lines 5-20, at col. 2, line 50 through col. 3, line 20, Fig. 3), **for storing an association of the identifier with the instance of the requestor-specific form,** (see Light at col. 7, lines 10-20) teaches at block 595, the new tag and new data associated with it are added to the database. For another embodiment, the tag and data are automatically added to the database.

for receiving the augmented instance of the requestor-specific form after handling by the originator and/or user, for comparing the requestor-specific identifier of the received requestor-specific form against the association, (see Light at col. 2, lines 5-20) teaches The user's system, a client, item 110 is coupled to a network item 120. Servers item 130 are coupled to the network 120. Also the server item 130 may be the same computer as the client 110; these servers provide Web pages to the user via the network 120. These Web pages may include forms; also (see Light at col. 2, line 50 through col. 3, line 20- also see Fig. 3) provides plurality of unit item such as, the auto-fill-in system 310 includes a fill-in subunit 315 and a learning subunit 370. The fill-in subunit 315 includes a form recognition unit 320. When a form is included in the web page the form recognition unit 320 notes that there is a form. Whereby the form includes a hypertext markup language (HTML) tag such as "form", or "input type," indicating that it is a form or that it requires user input. The auto-fill-in system 310 then inspects the source code for the page, and recognizes tags associated with blank spaces in the form.

Light teaches automatic forma filling, but Light does not explicitly teach, **for automatically routing an image of the received requester-specific form to a destination indicated in a corresponding entry in a configuration file**. However, (see Maxwell at col. 8,

lines 25-60) Maxwell teaches a method of form completion program executes the data population command when a graphical representation of a particular data set is placed over the form. Each data set is stored in an encrypted manner and is accessible to users who enter the appropriate information into an authentication mechanism. To populate a form with data the form completion program obtains an image of the form and then searches for a template file that resembles the form image to within a certain threshold. The template files are typically stored on the computer hosting the target application in a template directory that is arranged according to a predefined structure.

it is noted that Maxwell's form completion program discloses above using a web client that is connected to a computer network such as the Internet. The web client is capable of obtaining web pages that contain forms from the Internet (see Maxwell at col. 8, lines 5-10), wherein a form, can be embedded inside of a web page using the HyperText Markup Language (HTML) (see Maxwell at col. 3, lines 1-5), can reasonably interprets as, *"automatically routing an image of the received requester-specific form to a destination indicated in a corresponding entry in a configuration file,"* of the claimed invention.

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply Maxwell to Light (using Light's automatically filled into the form from a database (i.e. a form included in the web page is recognized and Data is automatically filled into the form from a database - see Light column 1 line 45), providing Light the benefit of decrypting and displaying the specific-form to user with a target application (i.e. web browser) – see Maxwell col. 8, lines 5-15).

In regard to independent claim 12, incorporate substantially similar subject matter as cited in claim 1 above, and further view of the following and is similarly rejected along the same rationale,

automatically routing an image of the received requestor-specific form to a destination indicated by rules that trigger actions based on predefined request-specific. . However, (see Maxwell at col. 8, lines 25-60) Maxwell teaches a method of form completion program executes the data population command when a graphical representation of a particular data set is placed over the form. Each data set is stored in an encrypted manner and is accessible to users who enter the appropriate information into an authentication mechanism. To populate a form with data the form completion program obtains an image of the form and then searches for a template file that resembles the form image to within a certain threshold. The template files are typically stored on the computer hosting the target application in a template directory that is arranged according to a predefined structure.

it is noted that Maxwell's form completion program discloses above using a web client that is connected to a computer network such as the Internet. The web client is capable of obtaining web pages that contain forms from the Internet (see Maxwell at col. 8, lines 5-10), wherein a form, can be embedded inside of a web page using the HyperText Markup Language (HTML) (see Maxwell at col. 3, lines 1-5), can reasonably interprets as, *"automatically routing an image of the received requester-specific form to a destination indicated rules that trigger actions based on predefined request-specific,"* of the claimed invention.

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply Maxwell to Light (using Light's automatically filled into the form from a database (i.e. a

form included in the web page is recognized and Data is automatically filled into the form from a database - see Light column 1 line 45), providing Light the benefit of decrypting and displaying the specific-form to user with a target application (i.e. web browser) – see Maxwell col. 8, lines 5-15).

In regard to independent claim 18, incorporate substantially similar subject matter as cited in claim 1 above, and further view of the following and is similarly rejected along the same rationale,

a user system associated with a user (see Light at col. 2, lines 5-20) teaches the user's system, a client, item 110 is coupled to a network item 120. Servers item 130 are coupled to the network 120. Also the server item 130 may be the same computer as the client 110; these servers provide Web pages to the user via the network 120. These Web pages may include forms.

In regard to dependent claim 2, the intercepting software module is a driver installed in the client system (see Light at col. 2, lines 5-20) teaches the user's system, a client, item 110 is coupled to a network item 120. Servers item 130 are coupled to the network 120. Also the server item 130 may be the same computer as the client 110; these servers provide Web pages to the user via the network 120. These Web pages may include forms; also (see Light at col. 2, line 50 through col. 3, line 20- also see Fig. 3) provides the auto-fill-in system 310.

It is noted that Light's user system includes the server item 130 may be the same computer as the client 110 and provides the auto-fill-in system 310, can reasonably interprets as, acts as *"a driver installed in the client system,"* as the claimed invention.

In regard to dependent claim 4, incorporate substantially similar subject matter as cited in claim 1 above, and further view of the following and is similarly rejected along the same rationale,

... a command to download the form the originate system over a network (see Light at col. 2, lines 5-20) teaches The user's system, a client, item 110 is coupled to a network item 120. Servers item 130 are coupled to the network 120 that provide Web pages to the user via the network 120. These Web pages may include forms- These Web pages may include forms.

In regard to dependent claim 5, incorporate substantially similar subject matter as cited in claims 1, 12 and 18 above, and is similarly rejected along the same rationale.

In regard to dependent claim 6, in which the coordinating system is a web service (see Light at col. 2, lines 5-20) teaches the user's system, a client, item 110 is coupled to a network item 120. Servers item 130 are coupled to the network 120 that provide Web pages to the user via the network 120. These Web pages may include forms- These Web pages may include forms.

In regard to dependent claims 9-11, incorporate substantially similar subject matter as cited in claim 1 above, and further view of the following and is similarly rejected along the same rationale,

...automatically converting the exacted data into any of a plurality format .... However, (see Maxwell at col. 8, lines 25-60) Maxwell describes once a file is sent from web server to web client; it becomes ready for display. The web client's web browser is typically used to format and display files (i.e. web browsers include Netscape Navigator, Internet Explorer, and Opera. Some web browsers can display several different types of files. For example, files written

using the HyperText Markup Language (HTML), the JavaScript programming language, the ActiveX programming language, or the Portable Document Format (PDF) may be displayed using a web browser. It is also possible to display various other types of files using language such as Standard Generalized Markup Language (SGML) or eXtensible Markup Language (XML).

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply Maxwell to Light (using Light's automatically filled into the form from a database (i.e. a form included in the web page is recognized and Data (plurality of format) is automatically filled into the form from a database - see Light column 1 line 45), providing Light the benefit of decrypting and displaying the specific-form to user with a target application (i.e. web browser) – see Maxwell col. 8, lines 5-15).

In regard to dependent claims 13-14 incorporate substantially similar subject matter as cited in claims 1 and 12 above, and further view of the following and is similarly rejected along the same rationale,

...for issuing a message to at least one recipient as part of the automatic routing. However, (see Maxwell at col. 20, lines 15-25 also see Fig. 8) Maxwell teaches computer 800 can send messages and receive data, including program code, through the network(s), network link 841, and communication interface 840. In the Internet example, remote server computer 846 might transmit a requested code for an application program through Internet 845, ISP 844, local network 844 and communication interface 840.

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply Maxwell to Light (using Light's automatically filled into the form from a database (i.e. a

form included in the web page is recognized and Data (plurality of format) is automatically filled into the form from a database - see Light column 1 line 45), providing Light the benefit of decrypting and displaying the specific-form to user with a target application (i.e. web browser) – see Maxwell col. 8, lines 5-15).

In regard to dependent claims 15-16 incorporate substantially similar subject matter as cited in claims 1 and 12 above, and are similarly rejected along the same rationale.

In regard to dependent claim 17 incorporate substantially similar subject matter as cited in claims 1 and 12 above, and further view of the following, and is similarly rejected along the same rationale,

the pre-determined conditions are selected from a group consisting of form transmission errors, form reception errors, form completion errors and conditions associated with predetermined routing categories (see Light at col. 2, line 50 through col. 3, line 20- also see Fig. 3) provides plurality of unit item such as, the auto-fill-in system 310 includes a fill-in subunit 315 and a learning subunit 370. The fill-in subunit 315 includes a form recognition unit 320. When a form is included in the web page the form recognition unit 320 notes that there is a form. Whereby the form includes a hypertext markup language (HTML) tag such as "form", or "input type," indicating that it is a form or that it requires user input. The auto-fill-in system 310 then inspects the source code for the page, and recognizes tags associated with blank spaces in the form.

6. **Claim 3** are rejected under 35 U.S.C. 103(a) as being unpatentable over Arroyo et al. US 20030033167A1- Provisional No. 30/311,352 filed 08/13/2001 (hereinafter Arroyo), in

view of Light et al. US 20030033167A1- issued 02/20/2001 (hereinafter Light), further in view of Bernklau-Halvor US 20030110413A1- filed 06/19/2001 (hereinafter Bernklau-Halvor).

In regard to dependent claim 3, incorporate substantially similar subject matter as cited in claim 1 above, and further view of the following and is similarly rejected along the same rationale,

...command to produce ...a form is a command to a standard printer driver within the client system. However, (see Bernklau-Halvor page 3 paragraph [0029]) teaches a printer diver within the user personal computer commanding by user that causes the user's web browser to display the form rendering from the web server.

It is noted the above, can reasonably interprets as, *"command to produce ...a form is a command to a standard printer driver within the client system,"*

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply Bernklau-Halvor to Light and Maxwell (using Maxwell's form completion program -see Maxwell at col. 8, lines 5-10 in combination with Light's automatically filled into the form from a database (i.e. a form included in the web page is recognized and Data is automatically filled into the form from a database - see Light column 1 line 45), providing a printer with printer diver within the user computer (i.e. client system) to produce Light and Maxwell specific-form download from webserver via internet and user's web browser.

7. **Claims 7-8** are rejected under 35 U.S.C. 103(a) as being unpatentable over Arroyo et al. US 20030033167A1- Provisional No. 30/311,352 filed 08/13/2001 (hereinafter Arroyo), in

view of Light et al. US 20030033167A1- issued 02/20/2001 (hereinafter Light), further in view of Tsujit et al. US20010016856A1- filed 01/19/2001 (hereinafter Tsujit).

In regard to dependent claim 7, incorporate substantially similar subject matter as cited in claim 1 above, and further view of the following and is similarly rejected along the same rationale,

...for associating the handwritten comment filed with a corresponding report item. However, (see Tsujit page 4 paragraph [0068] also see Fig. 6) presents a form with handwritten characters relates to the form.

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply Tsujit to Light and Maxwell (using Maxwell's form completion program -see Maxwell at col. 8, lines 5-10 in combination with Light's automatically filled into the form from a database (i.e. a form included in the web page is recognized and Data is automatically filled into the form from a database - see Light column 1 line 45), represents an electronic form reflecting the entries into the form and displayed on the display or print out by the printer of Light and Maxwell specific-form download from webserver via internet and user's web browser.

In regard to dependent claim 8, incorporate substantially similar subject matter as cited in claim 1and 7 above, and further view of the following and is similarly rejected along the same rationale,

... automatically extracting the handwritten comment field as a sub-image and then converting the sub-image into a displayable format. However, (see Tsujit page 5 paragraphs [0071]-[0074]) also see Fig. 6) presents a form with handwritten characters relates to the form using on-line-character-recognition basis, such as recognize the identifying letter, then

detect the position of the form with respect to the main unit and then format data of the electronic form corresponding to the recognized letter is read from the form-format database to specify the format of the electronic form. Subsequently, the blank electronic form to be filled through the input pen is displayed on the display.

It would have been obvious to one of ordinary skill in the art at the time of the invention to apply Tsujit to Light and Maxwell (using Maxwell's form completion program -see Maxwell at col. 8, lines 5-10 in combination with Light's automatically filled into the form from a database (i.e. a form included in the web page is recognized and Data is automatically filled into the form from a database - see Light column 1 line 45), represents an electronic form reflecting the entries into the form and displayed on the display or print out by the printer of Light and Maxwell specific-form download from webserver via internet and user's web browser.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Thieke et al.	"Payroll Made easy..."	Published	20000

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quoc A. Tran whose telephone number is (571) 272-4103. The examiner can normally be reached on Monday through Friday from 8 AM to 4:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Herndon R. Heather can be reached on (571) -272-4136. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Quoc A, Tran
Patent Examiner
Technology Center 2176
July 24, 2006

William L. Bashore
WILLIAM BASHORE
PRIMARY EXAMINER